

Claims

1. Centering system for a screen printing apparatus, with abutment wheels (24) arranged on a platform (12) for plates (3, 3a, 3b) to be printed, which come in contact with the outside margin of the plates and secure their position for further processing, characterized in that the abutment wheels (24) are mounted on longitudinally adjustable servo shafts (14, 15) which lie above the platform (12) and are in turn mounted on beams (13) which are arranged on a stationary frame (2) and above the platform (12).
2. Centering system according to claim 1, characterized in that the servo shafts (14, 15) are mounted swivelingly on the beams (13) so that their direction of action is adjustable.
3. Centering system according to claim 1 or 2, characterized in that the torque of the motors (22) driving the servo shafts (14, 15) are detected and used for determining the plate position.
4. Centering system according to claim 3, characterized in that the magnitude of the torque and the drive for the servo shafts (14, 15) are recorded recoverably in a memory unit.
5. Centering system according to claim 1, characterized in that the plate dimensions are transmitted through a CAD system to a positioning system for controlling the servo shafts and in some cases stored in memory.
6. Centering system according to claim 1, characterized in that the beams are provided with holds (20) arranged at intervals and the servo shafts (14, 15) are provided with pins (21, 26) which can be anchored therein.
7. Centering system according to claim 4, characterized in that a transport line is placed before the platform (12) and a conveyor belt (10) running parallel to it is associated with it, by which the plates (3, 3a, 3b) can be raised by a lifting means to the platform level (12).

8. Centering system according to claim 7, characterized in that the lifting means is provided with a plurality of ball guides (9) lying in one plane, which can be lifted together above the level formed by the conveyor belt (10) to the platform level (12).
9. Centering system according to claim 1, characterized in that the abutment wheels (24) stand apart unilaterally from the servo axes (14, 15).
10. Centering system according to claim 9, characterized in that the abutment wheels (24) are adjustable in distance from the servo shafts (14, 15).
11. Centering system according to claim 10, characterized in that the abutment wheels (24) are disposed for swiveling at the servo shafts (14, 15) especially at the servo shafts (14, 15).
12. Centering system according to claim 9, characterized in that the abutment wheels (24) are mounted with their axles fixedly on adjustable mountings of the servo shafts (14, 15) and that the supports (13) for the servo shafts (14, 15) are part of a raisable and lowerable frame which is provided at the top side of the frame (2).